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CONTENTS:

The Northern Variety of Asperella Hystrix. *M. L. Fernald*. . . 229

Report on the Flora of the Boston District,—XXXVII. 231

Report on the Desmids of Connecticut (concluded). *C. J. Hylander* 236

Another Plant from Nantucket. *N. F. Flynn* 242

Errata 242

Index 243

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JOURNAL OF

THE NEW ENGLAND BOTANICAL CLUB

Vol. 24. December, 1922. No. 288.

THE NORTHERN VARIETY OF ASPERELLA HYSTRIX.

M. L. Fernald.

The unique Bottle-brush Grass, *Asperella Hystrix* (L.) Humb. (*Hystrix patula* Moench)[1] has two pronounced variations which were detected by that prince of early New England systematists, Jacob Bigelow, but which apparently have not been differentiated by others during the succeeding century. In 1824 Bigelow, after describing *Elymus Hystrix* L., said:

"We have two varieties.

Three or four feet high, sheaths smooth, spikelets about twenty, pubescent.

One or two feet high, sheaths rough, spikelets about ten, glabrous."[2]

Examination of all available material shows that while the stature, degree of pubescence of the sheaths and number of the spikelets are inconstant, the plant with pubescent spikelets is a well defined northern variety which should be set off from the typical southern plant with glabrous spikelets. All material in the Gray Herbarium from the southern half of the range of the species—Oklahoma, Missouri, Illinois, Indiana, Kentucky, North Carolina, West Virginia, District of Columbia, Maryland, Delaware and Pennsylvania—has strictly glabrous lemmas; much material from the northern half of the range—Nova Scotia, Quebec, Ontario, New England, New York, northern Ohio, Michigan and Wisconsin—has densely pilose lemmas. In New

[1] For discussion of the nomenclature of this plant see Hubbard, Rhodora, xiv. 187 (1912).

[2] Bigel. Fl. Bost. ed. 2, 47 (1824).

England and New York the typical plant with glabrous spikelets also occurs but it is noteworthy that, as shown by the very detailed representation in the herbarium of the New England Botanical Club, they are not often found together; the plant with glabrous spikelets occurring in the southern counties or in areas well known for their southern floras—for instance, the alluvial terraces of the Kennebec in Maine or Oak Island in eastern Massachusetts; the plant with pilose spikelets selecting the cooler stations: rocky talus of mountains and hills such as Day Mountain in Franklin County, Maine, Devil's Slide, Stark, New Hampshire, Willoughby Notch and Williamstown Gulf, Vermont, and Horn Pond Hill and Lee's Cliff in eastern Massachusetts.

Although Linnaeus did not indicate whether or not his *Elymus Hystrix* has glabrous or pubescent spikelets, the fact that it came from Virginia (*Clayton*) is reasonable evidence that its spikelets were glabrous and from the contrast of range and habitat above indicated it is clear that the northern variety with pilose spikelets should be separated as

Asperella Hystrix (L.) Humb., var. **Bigeloviana**, n. var., spiculis pilosis.—Nova Scotia and Quebec to Wisconsin. The following are characteristic specimens. Nova Scotia: alluvial woods along Five-mile River, Hants Co., July 19, 1920, *Pease & Long*, no. 20,116. Quebec: woods, near Cookshire, August 4, 1914, *T. W. Edmondson*, no. 5326. Maine: rocky woods, Day Mt., Franklin Co., August 1, 1903, *Knowlton;* Hanover, July, 1888, *Parlin*. New Hampshire: alluvial woods by Mohawk River, Colebrook, September 5, 1917, *Fernald & Pease*, no. 17,454; moist woods by Israel River, Lancaster, August 1, 1910, *Pease*, no. 12,785; thin woods by the Connecticut River, Hanover, July 13, 1910, *Williams* (type in Gray Herb.); Walpole, July 16, 1903, *Blanchard*, no. 51. Vermont: Willoughby Notch, July 23, 1894, *Williams*, July 31, 1894, *Kennedy;* river thicket, Montpelier, August 18, 1915, *Knowlton;* rocky woods, Williamstown, July 15, 1918, *Knowlton*. Massachusetts: Malden Waterfall, July 15, 1866, *Wm. Boott;* hill near Spot Pond, Middlesex Co., July 11, 1853, *Boott;* rocky woods at the cascade, Melrose, July 29, 1888, *Rich;* rocky woods, Horn Pond Mountain, Woburn, July 8, 1908, *Pease*, no. 11, 356; Lee's Cliff, Concord, July 6, 1859, *H. D. Thoreau;* Muddy Pond Woods, Boston, July 24, 1874, *Faxon;* border of Purgatory, Sherborn, August 15, 1911, *M. L. Loomis*, no. 529; alluvial woods, Greenfield, July 22, 1913, *Murdoch*, no. 5211; rocky banks of Westfield River, West Chesterfield, August 22, 1912, *Robinson*, no. 732. Rhode Island: station not stated, *Thurber*. Connecticut: New Haven, July 12, 1879, *J. A. Allen*. New York: open alluvial and marshy

flats south of Fall Creek, Ithaca, July 9, 1913, *Palmer*, no. 173; Taughannock Ravine, Ulysses, June 27, 1916, *Metcalf*, no. 5878. ONTARIO: St. Thomas, July 3, 1898, *G. L. Fisher*. OHIO: Rocky River, July 13, 1896, *Greenman*, no. 3200. MICHIGAN: border of Burt Lake, Cheboygan Co., July 28, 1917, *Ehlers*, no. 557; damp low woods, Ann Arbor, June 29, 1838, *Houghton*. WISCONSIN: River Falls, August, 1903, *Powell*.

As stated, all the material examined from south of the above area is typical *A. Hystrix* with glabrous spikelets. It may be of service to others to have a record of the more northern stations for the plant with glabrous spikelets, as follows; and it will be noted that in every case these stations are different from those of var. *Bigeloviana* and decidedly more numerous in southern New England.

MAINE: wooded brooksides and gulleys in clay terraces of the Kennebec, Sidney, *Fernald & Long*, no. 12,749; Pittston, *Reynolds*. NEW HAMPSHIRE: sandy river-terraces of the Pemigewasset, Plymouth, *Fernald*, no. 11,569. VERMONT: dry woods, Shoreham, *Cushman*, no. 6269; ledgy woods, East Jamaica, *Wheeler;* Brattleboro, *Churchill;* Manchester, *Day*, no. 273. MASSACHUSETTS: Essex, *Eaton;* moist woods, West Boxford, *Horner;* Georgetown, *Horner;* rocky woods, Waltham, *Pease*, no. 11,388; rich woods, Oak Island, *Young et al.;* rocky woods, Brookline, *Forbes*; rock, Wellesley, *Wiegand;* Needham, *Fuller;* Dover, *Fuller;* woods near the Mountain House, Mt. Wachusett, *Collins;* rocky wooded hillside, Middlefield, *Fernald & Long*, no. 8825; Stockbridge, *Hoffmann;* wet woods, Sheffield, *Churchill*. CONNECTICUT: West Hartford, *Driggs;* not rare in shade, Southington, *Andrews;* Roaring Brook, *Eaton;* Norwich, *Rogers;* rocky woods, Danbury, *Harger*. NEW YORK: Canton, *Phelps;* western N. Y., *Gray*, N. A. Gram. Cyp., no. 130; dry woods, Ithaca, *Metcalf*, no. 5876. ONTARIO: Battersea, *Fowler*.

GRAY HERBARIUM.

REPORTS ON THE FLORA OF THE BOSTON DISTRICT,—XXXVII.

DIAPENSIACEAE.

GALAX.

G. APHYLLA L. Two clumps in oak woods, Swampscott (*Miss M. E. Ward*, Dec. 5, 1918. See RHODORA xxi. 24, 1919). Specimen in herb. N. E. Botanical Club.

PLUMBAGINACEAE.

LIMONIUM.

L. trichogonum Blake. (*L. carolinianum* of Gray's Manual, 7th edition. See Blake, Rhodora xviii. 61–62, 1916.) Salt marshes, common from Salisbury to Duxbury.

PRIMULACEAE.

ANAGALLIS.

A. arvensis L. Sandy soil near the seashore, sometimes in gardens; rather common.

GLAUX.

G. maritima L. Salt marshes and sandy places close to the sea, rare; Ipswich, Rockport, Somerville, Medford.

G. maritima L., var. **obtusifolia** Fernald. Salt marshes, occasional north of Boston.

HOTTONIA.

H. inflata Ell. Ditches and shallow stagnant water; frequent near the coast.

LYSIMACHIA.

L. Nummularia L. Dooryards and moist places, a frequent escape.

× **L. producta** (Gray) Fernald. Open woods and wet sandy places; Georgetown, Westford, Revere, Wellesley, Holbrook, Halifax.

[L. punctata L. Whitman and Brockton Heights, according to Arthur Clark, Rhodora iii. 201, 1901.]

L. quadrifolia L. Dry open woods and hillsides, very common throughout.

L. terrestris (L.) BSP. Swamps and low ground, common throughout.

L. thyrsiflora L. Swamps; frequent in Essex, eastern Middlesex and northern Norfolk counties; no reports from northwestern, southwestern or southeastern towns.

L. vulgaris L. Persistent in old gardens and sometimes escaping

PRIMULA.

P. VERIS Willd. Braintree (*W. H. Manning*, May 8, 1886; *L. L. Dame*, 1887). Specimens in herb. N. E. Botanical Club.

SAMOLUS.

S. floribundus HBK. Brackish marshes and meadows near the sea; occasional in Essex county, rare elsewhere.

STEIRONEMA.

S. ciliatum (L.) Raf. Moist rich soil, occasional north of Boston; Hingham, according to Bouvé, Botany of Hingham, in History of Hingham I, Part 1, 1893.

S. lanceolatum (Walt.) Gray. Meadows and pastures; frequent throughout, except along the South Shore below Weymouth.

TRIENTALIS.

T. borealis Raf. (*T. americana* (Pers.) Pursh. See Blanchard, RHODORA xi. 236, 1909.) Woods in acid soil, common.

EBENACEAE.

DIOSPYROS.

D. VIRGINIANA L. Old pasture, Waltham (*G. E. Morris*, Dec. 1, 1915.) Specimens in herb. N. E. Botanical Club.

OLEACEAE.

FRAXINUS.

F. americana L. Woods, common throughout.

F. americana L., forma **iodocarpa** Fernald. See RHODORA xiv. 192, 1912. Winchester, two stations; Sherborn; probably elsewhere.

F. nigra Marsh. Wet woods and swamps, frequent.

F. pennsylvanica Marsh. Riverbanks, especially along the Merrimac, and other moist places; rare or absent in southern towns.

LIGUSTRUM.

L. VULGARE L. Thickets, rocky woods and pastures; frequent, especially near Boston.

SYRINGA.

S. PERSICA L. Persistent by roadside near old garden, Sudbury (*A. H. Moore*, May 28, 1905). Specimens in Gray Herb. and herb. N. E. Botanical Club.

S. VULGARIS L. Persistent and spreading throughout.

GENTIANACEAE.

BARTONIA.

B. paniculata (Michx.) Robinson. Swampy places in Blue Hill Reservation and vicinity, rare.

B. virginica (L.) BSP. Meadows and wet places; frequent, but unevenly distributed. Collected in Boston in 1830 by Francis Boott.

[*Centaurium umbellatum* Gilib. One station at Concord, 1890, not persistent, reported by A. W. Hosmer as *Erythraea Centaurium* Pers. in RHODORA i. 224, 1899.]

GENTIANA.

G. Andrewsii Griseb. Moist soil, occasional, but no reports from southeastern towns.

G. clausa Raf. See Fernald, RHODORA xix. 147-149, 1917. Occasional from Winchester, Concord and Sherborn north.

G. crinita Froel. Fields and meadows, well distributed throughout but becoming rare. Pink and white forms are occasional.

MENYANTHES.

M. trifoliata L. Peat-bogs and swamps; frequent from Hingham and Needham north.

NYMPHOIDES.

N. aquaticum (Walt.) Fernald. Small pond, Wellesley (*K. M. Wiegand*, Aug. 28, 1912). Specimen in herb. Wellesley College.

N. lacunosum (Vent.) Fernald. Quiet water, frequent.

SABATIA.

S. ANGULARIS (L.) Pursh. Moist sandy loam in mowing field, Salisbury (*Eben True*, Sept. 22, 1885). Specimen in herb. Peabody Acad. Sci. under the name of *S. stellaris* Pursh. See Fernald, RHO-

DORA xviii. 147, 1916. There is no specimen to verify the report of *S. stellaris* at Amesbury (*J. H. Sears*, RHODORA x. 43, 1908) but it is probably this plant also.

S. campanulata (L.) Torr. (*S. gracilis* (Michx.) Salisb. See Fernald, RHODORA xviii. 145, 1916.) Pembroke (*W. L. Foster*, Sept. 10, 1884). Specimen in Gray Herb. In RHODORA i. 224, 1899, A. W. Hosmer records this as found at one station in Concord, 1897. This record is doubtful, for no specimen exists. The plant may have been introduced by Minot Pratt, whose work in introducing plants can be read in RHODORA i. 168, 1899.

S. Kennedyana Fernald. See RHODORA xviii. 150, 1916. (*S. dodecandra* of Gray's Manual, as to Massachusetts plant.) Great Pond, S. Weymouth (*G. E. Davenport*, Sept. 10, 1874 et al. to date); border of pond near shore, Scituate (*F. F. Forbes*, Sept. 20, 1914); Halifax, swamp by pond (*C. H. Knowlton, H. A. Purdie & W. P. Rich*, July 15, 1906).

S. Kennedyana Fernald, forma **candida** Fernald. See RHODORA xviii. 151, 1916. Weymouth (*Miss Underwood*, Aug. 8, 1905). Specimens in Gray Herb. See Dame & Collins, Fl. Middlesex Co., 80, 1888, under *S. chloroides*.

APOCYNACEAE.

AMSONIA.

A. TABERNAEMONTANA Walt. Back Bay waste lands, Boston (*E. F. Williams*, Aug. 12, 1903). Specimens in Gray Herb. See Rich, RHODORA x. 151, 1908.

APOCYNUM.

A. androsaemifolium L. Dry soil, common.

A. cannabinum L. Wet sandy shores of streams and ponds, occasional.

A. medium Greene. Gravelly soil; Milton, Dorchester, Sharon, Needham, Wellesley, Natick, Framingham.

VINCA.

V. MINOR L. Reported only from old Houghton place, Blue Hill Reservation (*E. F. Williams*, April 20, 1902). Doubtless escaped in many other places.

ASCLEPIADACEAE.

ASCLEPIAS.

A. amplexicaulis Sm. Dry sandy soil; well distributed from Dunstable to Duxbury, but seldom abundant.

A. incarnata L., var. **pulchra** (Ehrh.) Pers. Low grounds and margins of ponds, common.

A. phytolaccoides Pursh. Open woods and dry places; well distributed but not abundant.

A. purpurascens L. Dry open ground; apparently frequent from Braintree and the Blue Hills northward.

A. quadrifolia Jacq. Dry open woods; frequent from Hingham and the Blue Hills northward.

A. syriaca L. Dry fields and roadsides, common throughout.

A. syriaca L., forma **inermis** Churchill. Prospect Hill, Waltham (*W. Deane*, Aug. 13, 1910); Dedham (*S. Harris*, Sept. 27, 1896). See Rhodora xx. 206–7, 1918.

A. tuberosa L. Dry sandy soil, rare; Haverhill, Danvers, Beverly, Westford, Bedford, Medfield; Hingham, according to Bouvé, Botany of Hingham, in History of Hingham, I, Part 1, 1893.

A. verticillata L. Dry rocky soil and exposed ledges, rare, at 14 stations, all within 15 miles of Boston.

CYNANCHUM.

C. nigrum (L.) Pers. Escaped from cultivation at Newburyport, Medford, Cambridge, Watertown and Brighton.

C. H. Knowlton, Walter Deane } *Committee on Local Flora*

A PRELIMINARY REPORT ON THE DESMIDS OF CONNECTICUT.

C. J. Hylander.

(*Continued from page 224.*)

STAURASTRUM Meyen

**S. aciculiferum (Borge) West. Hamden (*Carter*).

S. Arctiscon (Ehrenb.) Lund. Nova Acta Reg. Soc. Sci. Upsala

III. **8**: 70. *pl. 4, f. 8.* 1871. Bethlehem, Bridgeport (*Johnson*, see **7**, p. 319), Middletown (*Conn*, see **2**, p. 62), Morris.

†S. ASPINOSUM Wolle, Desm. U. S. 143. *pl. 51, f. 22, 23.* 1884. Bridgeport (*Johnson*, **5**, p. 288).

*S. AVICULA Bréb. in Ralfs, Brit. Desm. 140. *pl. 23, f. 11.* 1848. Litchfield (*a*), Morris, Suffield, Washington, West Haven (*b*).

†S. BICORONATUM Johnson, Bull. Torrey Club **21**: 290. *pl. 211, f. 9.* 1894. Bridgeport (*Johnson*, **5**, p. 290).

*S. BIENNIANUM var. ELLIPTICUM Wille, Öfvers. K. Vet.-Akad. Förh. **5**: 50. *pl. 13, f. 49.* 1879. Guilford, Killingworth, West Haven (*a*).

*S. BREBISSONII Arch. in Pritchard, Infus. 739. 1861. Litchfield (*a*), Plymouth, Suffield, Washington, West Haven (*b*).

S. BREVISPINUM Bréb. Middletown (*Conn*, see **2**, p. 62).

†*S. CONCINNUM West & G. S. West, Jour. Linn. Soc. Bot. **33**: 317. *pl. 18, f. 17.* 1897. Middlebury, Southington.

†S. CORONULATUM Wolle, Desm. U. S. 135. *pl. 44, f. 11, 12.* 1884. Middletown (*Conn*, see **2**, p. 62).

S. CRENULATUM Näg. Gatt. einz. Alg. 129. *pl. 8 Ba.* 1849. Guilford, Madison, Middletown (*Conn*, see **2**, p. 62), Monroe (*a*), New Haven (*b*), Suffield, Washington.

S. CUSPIDATUM Bréb. in Meneghini, Linnaea **14**: 226. 1840. Bridgeport (*Johnson*, **5**, p. 288), Litchfield (*a*), Middlebury, Morris, North Branford (*b*), Orange, Plymouth, Suffield, Thomaston, Watertown, Washington, West Haven (*b*).

*S. CYRTOCERUM Bréb. in Ralfs, Brit. Desm. 139. *pl. 22, f. 10.* 1848. Hamden (*b*), West Haven (*b*).

S. DEJECTUM Bréb. in Meneghini, Linnaea **14**: 227. 1840. Middlebury, Middletown (*Conn*, see **2**, p. 62), Orange, Suffield, Washington.

†S. DEJECTUM var. CONVERGENS Wolle, Desm. U. S. 121. *pl. 40, f. 7, 9, 10, 11.* 1884. Middletown (*Conn*, see **2**, p. 62).

*S. DICKIEI Ralfs, Brit. Desm. 123. *pl. 21, f. 3.* 1848. Suffield, Washington.

*S. DILATATUM Ehrenb. Infus. 143. *pl. 10, f. 13.* 1838. Bethlehem, Monroe (*a*), Morris, Orange.

†S. ELEGANTISSIMUM Johnson, Bull. Torrey Club **21**: 290. *pl. 211, f. 16.* 1894. Bridgeport (*Johnson*, **5**, 290).

S. ERASUM Bréb. Mém. Soc. Imp. Sci. Nat. Cherbourg **4**: 143. *pl. 1, f. 28.* 1856. Middletown (*Conn*, see **2**, 62).

S. EUSTEPHANUM (Ehrenb.) Ralfs, Brit. Desm. 215. 1848. Middletown (*Conn*, see **2**, p. 62), Washington, West Haven (*b*).

S. FURCIGERUM Bréb. in Meneghini, Linnaea **14**: 226. 1840. Middletown (*Conn*, see **2**, p. 62), Morris.

S. GRACILE Ralfs, Ann. Mag. Nat. Hist. **15**: 155. *pl. 11, f. 3.* 1845. Middlebury, Middletown (*Conn*, see **2**, p. 62), Morris, Monroe (*a*), New Haven (*b*), Suffield, Thomaston, Washington.

S. GRANDE Bulph. Bridgeport (*Johnson*, **6**, p. 294), Bethlehem.

*S. GRANDE var. PARVUM West & G. S. West. Bethlehem, Plymouth.

*S. GRANULOSUM (Ehrenb.) Ralfs. Guilford, Litchfield (*a*).

†S. HEXACERUM var. AVERSUM West & G. S. West, Jour. Linn. Soc. Bot. **33**: 313. *pl. 18, f. 13.* 1897. Bridgeport (*Johnson*, see **7**, p. 313).

S. HIRSUTUM (Ehrenb.) Bréb. in Ralfs, Brit. Desm. 127. *pl. 22, f. 3.* 1848. Hamden (*b*), Middletown (*Conn*, see **2**, p. 62), Monroe (*a*).

†S. INCISUM Wolle, Desm. U. S. 132. *pl. 41, f. 12–14.* 1884. Bridgeport (*Johnson*, **5**, p. 288), Morris.

S. INFLEXUM Bréb. Mém. Soc. Imp. Sci. Nat. Cherbourg **4: 140. *pl. 1, f. 25.* 1856. Killingworth (*b*).

†S. IOTANUM Wolle, Desm. U. S. 137. *pl. 51, f. 5–7.* 1884. Bridgeport (*Johnson*, see **7**, p. 315), Middletown (*Conn*, see **2**, p. 62).

S. IRREGULARE West, Jour. Roy. Micr. Soc. **1894**: 12. *pl. 2, f. 49, 50.* Bridgeport (*Johnson*, **5**, p. 288).

S. LEPTOCLADUM Nordst. Vidensk. Medd. Fören. Kjöbenhavn **1869**: 228. *pl. 4, f. 57.* 1870. Middlebury, Middletown (*Conn*, see **2**, p. 62), Suffield, Thomaston.

S. LEPTOCLADUM var. CORNUTUM Wille, Bih. K.-Vet. Akad. Handl. **18**[8]: 19. *pl. 1, f. 39.* 1884. Bridgeport (*Johnson*, **5**, p. 289).

S. MARGARITACEUM (Ehrenb.) Menegh. Linnaea **14**: 227. 1840. Bethany, Guilford, Hamden (*b*, also *Carter & Evans*), Killingworth, Litchfield (*a*), Madison, Middlebury, Middletown (*Conn*, see **2**, p. 62), New Haven (*b*), Southington, Suffield, Thomaston, Watertown, Washington.

S. MEGACANTHUM Lund. Nova Acta Reg. Soc. Sci. Upsala III. **8**: 61. *pl. 4, f. 1.* 1871. Bridgeport (*Johnson*, **5**, p. 288), Middletown (*Conn*, see **2**, p. 62).

*S. MERIANI Reinsch, Act. Senckenb. **6**: 125. *pl. 33, DI.* 1867. Hamden (*Carter & Evans*), West Haven (*a*).

*S. MONTICULOSUM Bréb. in Meneghini, Linnaea **14**: 226. 1840. Monroe (*a*), Suffield.

S. MURICATUM Bréb. in Meneghini, Linnaea **14**: 226. 1840. Hamden (*b*), Middletown (*Conn*, see **2**, p. 62).

*S. MUTICUM Bréb. in Meneghini, Linnaea **14**: 226. 1840. Middlebury, Orange, Suffield, West Haven (*a*, *b*).

†S. ODONTATUM Wolle, Bull. Torrey Club **8**: 2. *pl. 6, f. 11*. 1881. Middletown (*Conn*, see **2**, p. 62).

S. OPHIURA Lund. Nova. Acta Reg. Soc. Sci. Upsala III. **8**: 69. *pl. 467*. 1871. Bethlehem, Bridgeport (*Johnson*, **5**, p. 289), Hamden (*a*).

*S. ORBICULARE var. RALFSII West & G. S. West. Middletown, Morris, West Haven (*b*).

*S. PARADOXUM Meyen, Nova Acta Acad. Caes. Leop. Carol. **5**: 14. *pl. 43, f. 37, 38*. 1828. Plymouth.

*S. POLYMORPHUM Bréb. in Ralfs, Brit. Desm. 135. *pl. 22, f. 9, pl. 34, f. 6*. 1848. Orange.

**S. POLYTRICHUM Perty, Kleinst. Lebens. 210. *pl. 16, f. 24*. 1852. Bethany, Hamden (*a*).

**S. PROBOSCIDEUM Arch. in Pritchard, Infus. 742. 1861. Orange.

*S. PUNCTULATUM Bréb. Branford, Hamden (*a*), Killingworth, Newtown, New Haven (*b*), North Haven, Plymouth.

S. PYGMAEUM Bréb. in Ralfs, Brit. Desm. 213. *pl. 35, f. 26*. 1848. Middletown (*Conn*, see **2**, p. 62).

†S. RAVENELII Wood, Smithson. Contr. Knowl. **241**: 153. *pl. 21, f. 22*. 1872. Middletown (*Conn*, see **2**, p. 62).

*S. SEBALDI Reinsch, Act. Senckenb. **6**: 133. *pl. 24, DI, f. 1–3*. 1867. Guilford, West Haven (*b*).

*S. SETIGERUM Cleve, Öfvers. K. Vet.-Akad. Förh. **20**: 490. *pl. 4, f. 4*. 1863. Bethlehem, Middlebury, Suffield.

*S. SPONGIOSUM Bréb. in Ralfs, Brit. Desm. 141. *pl. 23, f. 4*. 1848. Guilford, Monroe (*a*), Suffield.

*S. TETRACERUM (Kütz.) Ralfs, Ann. Mag. Nat. Hist. **15**: 150. *pl. 10, f. 1*. 1845. Bethlehem, Middlebury, Morris, Thomaston, Washington.

*S. TUMIDUM Bréb. Madison.

†S. VESTITUM var. TORTUM West & G. S. West, Jour. Linn. Soc. Bot. **33**: 317. *pl. 18, f. 16*. 1897. Bridgeport (*Johnson*, see **7**: p. 317).

COSMOCLADIUM Bréb.

*C. SAXONICUM DeBary, Flora **48**: 321. *pl. 1, f. 1–3.* 1865. Branford (*Carter*).

SPHAEROZOSMA Corda

S. PULCHRUM Bailey in Ralfs, Brit. Desm. 209. *pl. 35, f. 2.* 1848. Middlebury, Middletown (*Conn*, see **2**, p. 65).

S. SPINULOSUM Delp. Mem. R. Accad. Sci. Torino II. **28**: 78. 1876. Middletown (*Conn*, see **2**, p. 65), Suffield.

ONYCHONEMA Wallich

O. FILIFORME (Ehrenb.) Roy & Bissett. Bridgeport (*Johnson*, **5**, p. 286), Middlebury, Middletown (*Conn*, see **2**, p. 64, as *Sphaerozosma*), Morris, Thomaston.

O. LAEVE Nordst. Vidensk. Medd. Fören. Kjöbenhavn **1869**: 209. *pl. 3, f. 34.* 1870. Bethlehem, Bridgeport (*Johnson*, **5**, p. 286), Middlebury, Middletown (*Conn*, see **2**, p. 65), Morris, Washington.

SPONDYLOSIUM Bréb.

S. PAPILLOSUM West & G. S. West, Trans. Linn. Soc. Bot. II. **5**: 41. *pl. 9, f. 19.* 1895. Bethlehem, Middletown (*Conn*, see **2**, p. 65,) Morris, Orange, Plymouth.

*S. PLANUM (Wolle) West & G. S. West, Per. Plank. 430. *pl. 19, f. 5–8.* 1912. Killingworth, Thomaston, Washington, Watertown.

S. PYGMAEUM (Cooke) West, Jour. Linn. Soc. Bot. **29: 116. 1892. Thomaston.

HYALOTHECA Ehrenb.

H. DISSILIENS (Smith) Bréb. in Ralfs, Brit. Desm. 51. *pl. 1, f. 1.* 1848. Bethlehem, Hamden (*b*), Guilford, Hamden (*Carter & Evans*), Litchfield (*a*), Madison, Middlebury, Middletown (*Conn*, see **2**, p. 65), New Haven (*b*), North Branford (*a*), Plymouth, Washington.

H. UNDULATA Nordst. Bridgeport (*Johnson*, **5**, p. 286).

DESMIDIUM Ag.

*D. APTOGONUM Bréb. Mém. Soc. Acad. Falaise **1835**: 268. 1835. Hamden (*b*), Middlebury, Washington.

*†D. BAILEYI (Ralfs) Wolle, Desm. U. S. 27. *pl. 2, f. 8–12.* 1884. Bethlehem, Plymouth, Suffield.

D. CYLINDRICUM Grev. Scottish Cryptog. Flor. **6**: 38. *pl. 293.* 1827. Bridgeport (*Holden*, see **1**, No. 1262), New Haven (*a*) Newtown, Middletown (*Conn*, see **2**, p. 65).

D. SWARTZII Ag. Syst. Alg. 9. 1824. Bethlehem, Madison, Middletown (*Conn*, see **2**, p. 65), Morris, New Haven (*a*), Plymouth.

GYMNOZYGA Ehrenb.

G. MONILIFORMIS Ehrenb. Berlin Monatz. 212. 1840. Bethlehem, Killingworth, Middlebury, Middletown (*Conn*, see **2**, p. 65), Monroe (*a*), Newtown.

This list includes 266 species and varieties, of which 125 are new to Connecticut and 22 new to North America.

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2. **Conn, H. W., & Webster, L. W.** A preliminary report on the algae of the fresh waters of Connecticut. Conn. Geol. & Nat. Hist. Surv. Bull. 10. Hartford, 1908.
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ANOTHER PLANT FROM NANTUCKET.—As long ago as 1911, while in Nantucket, I found a grass by the sidewalk which I supposed to be *Digitaria filiformis*. Although never quite satisfied with that determination I failed, through some oversight, to send a specimen of this plant when forwarding many others to Mr. Bicknell while he was

writing up "The Plants of Nantucket." After working over my Bermuda and Florida plants I became convinced that the grass was *Cynodon Dactylon* and a specimen sent to Mr. Bicknell has had his verification.—Mrs. Nellie F. Flynn, Burlington, Vermont.

Vol. 24, no. 287, including pages 213 to 228, was issued 4 December, 1922.

ERRATA

Vol 23:

Page 109, line 20, *for* impassible *read* impassable.
" 130, " 9, *for* it *read* in.
" 138, " 5, *for* father, *read* farther.
" 138, " 28, *for* catapillar *read* caterpillar.
" 138, " 35, *for* naterial *read* material.
" 153, " 25, *for* thrysoid *read* thyrsoid.
" 185, " 25, *for* ealirer, re*ad* earlier.
" 186, " 4, *for* Niewl. *read* Nieuwl.
" 225, " 16, *for* shows *read* show.
" 236, " 41, for *vulpinodea* read *vulpinoidea.*
" 237, " 29, *for* 95. *read* 95, 155.
" 244, " 42, for VIRECENS read VIRESCENS.
" 257, " 1, *for* 247 *read* 245.
" 261, " 14, *for* italicis *read* italics.
" 268, " 11, *for* Fer- *read* Fre-.
" 277, " 16, for PROSPERPINACA read PROSERPINACA.
" 286, " 3, *for* Doueette *read* Doucette.
" 293, " 16, for **pynocephala** read **pycnocephala**.

Vol 24:

Page 8, line 33, *for* peninsular *read* peninsula.
" 10, " 40, *for* 133 *read* 134.
" 13, " 4, *for* southeastern *read* southwestern.
" 50, " 3, *for* Hennesley *read* Hunlay.
" 87, " 7, *for* annectans *read* annectens.
" 88, " 26, for *Mosleyi* read *Moseleyi.*
" 89, " 9 & 34, for *hordaceus* read *hordeaceus.*
" 90, " 3 & 23, for *hordaceus* read *hordeaceus.*
" 105, " 14, for MACROCCUS read MACROCOCCUS.
" 115, " 33, for CORALORRHIZA read CORALLORRHIZA.
" 156, " 3, for **leucoccum** read **leucoccocum**.
" 157, " 2, for LXVI read LXVII.
" 200, " 24, for **remotifiora** read **remotiflora**
" 201, " 37, for *181* read *180.*
" 203, " 23, for ** read *.
" 209 " 2, for PINNATIFIDA read PINNATIFIDUM

INDEX TO VOLUME 24.

New scientific names are printed in full face type.

Abies balsamea, 98, 112.
Acer barbatum, 79; barbatum **sinuosum,** 79; floridanum, 79; Negundo, 177; pennsylvanicum, 117; rubrum, var. tridens, 177; sinuosum, 79.
Achillea, 35.
Aconitum Napellus, 116.
Actaea rubra, forma neglecta, 116.
Additions to the Flora of Connecticut, Series 2, 111.
Adiantum pedatum, var. aleuticum, 227.
Adventina, 34; ciliata, 35; Identity of the Genus, 34; parviflora, 34, 35.
Aegopodium, 92; Podagraria, 92, 182.
Aethusa, 92; Cynapium, 92, 179.
Agalinis maritima, 203; neoscotica, 203; purpurea, 88; tenuifolia, 119.
Agastache scrophulariaefolia, 184, var. mollis, 118.
Agrimonia parviflora, 116.
Agropyron caninum, 113, forma glaucum, 162, forma pubescens, 113, var. tenerum, 113, var. tenerum, forma ciliatum, 162.
Agrostis alba, var. aristata, 113.
Ajuga Chamaepitys, 151.
Algae from British Columbia, Notes on some, 101.
Alisma plantago-aquatica, var. parviflora, 160.
Allium, 19.
Alnus incana, var. hypochlora, 173; rugosa, 87.
Alopecurus aristulatus, 113; geniculatus, var. aristulatus, 113.
Ambrosia trifida, 205.
Amelanchier laevis, var. nitida, 175; stolonifera, 116, 174, var. lucida, 175.
American Variations of Linnaea borealis, 210.
Ames, O., Notes on new England Orchids,—II., 37.
Ammophila arenaria, 86; breviligulata, 86.
Amoeba, 51.
Amsonia, 235; Tabernaemontana, 235.
Anabaena, 104; flos-aquae, 104; inaequalis, 104.
Anagallis, 232; arvensis, 232.
Anaphalis margaritacea, 205, forma **anochlora,** 205, var. occidentalis, 181, 205.
Andrea crassinervia, 122; petrophila, 122.
Andromeda, 152; glaucophylla, 152.
Andropogon scoparius, 85, var. littoralis, 86, var. polyclados, 86, var. villosissimus, 86.
Anemone nemorosa, 186; quinquefolia, 186.
Anemonella, 185.
Angelica, 92; atropurpurea, 92.
Ankistrodesmus falcatus, 107; falcatus tumidus, 108.
Another Plant from Nantucket, 241.
Antennaria Parlinii, 205; petaloidea, 120.
Anthriscus, 92; sylvestris, 92.
Aphanothece microspora, 104; saxicola, 105.
Apios tuberosa, 176.
Apocynaceae, 235.
Apocynum, 235; androsaemifolium, 235; cannabinum, 180, 235; medium, 235.
Arabis hirsuta, 116.
Aralia spinosa, 118.
Arctostaphylos, 152; Uva-ursi, var. coactilis, 118, 152.
Arenaria macrophylla, 184.
Arisaema triphyllum, var. pusillum, 114, var. Stewardsonii, 114.
Aristida tuberculosa, 86.
Artemisia pontica, 208.
Arthrodesmus, 224; convergens, 224; incus, var. Ralfsii, 224; octocornis, 224; triangularis, 224.
Arundo, 55, 56; agrostoides, 143; canadensis, 143; Langsdorfi, 143; phragmites, 56; vulgaris, 56.
Asclepias, 236; amplexicaulis, 236; incarnata, var. pulchra, 180, 236; phytolaccoides, 236; purpurascens, 236; quadrifolia, 185, 236; syriaca, 236, forma inermis, 236; tuberosa, 236; verticillata, 236.
Asclepiadaceae, 236.

Ashe, W. W., Notes on Trees and Shrubs of southeastern North America, 77.
Asperella Hystrix, 229, 231, var. **Bigeloviana,** 230, 231; Northern Variety of, 229.
Aspidium simulatum, 111.
Aster amethystinus, 120; dumosus, 120; Lindleyanus, 205; nemoralis, 120; novae-angliae, forma rosea, 185; sagittifolius, 100; undulatus, 205.
Asteraceae, 34.
Athyrium acrostichoides, 159; angustum, var. elatius, 159; Filix-femina, 135.
Atlantic coastal plain Element in the Flora of the Great Lakes, 57, 80.
Aulocomnium androgynum, 123.

Barbula fallax, 123.
Bartlett, G. H., Senecio obovatus, var. elongatus in Connecticut, 226.
Bartlett, H. H., Color Types of Corallorrhiza maculata Raf., 145.
Bartonia, 234; paniculata, 118, 180, 234, var. intermedia, 180, var. sabulonensis, 180; virginica, 180, 234.
Bartram, E. B., Some Nova Scotia Mosses, 121.
Batrachospermum, 103; moniliforme, 103, 110.
Berberis Thunbergii, 116.
Berkshire County, Massachusetts, Hoffmann's Flora of, 183.
Betula alleghaniensis, 167–170; caerulea, 172, 173, var. Blanchardi, 171, 172, var, grandis, 171, 172; caerulea-grandis, 171–173; excelsa, 170; lenta, 133; α genuina, 170, β lutea, 170; lutea, 167–170, var. alleghaniensis, 168, var. **macrolepis,** 170; lutea alleghaniensis, 170; nigra, 83, 99, 132; papyrifera, 171; pendula, 171, 173, var. japonica, 171; populifolia, 172, 173.
Bidens Beckii, 120, 181, 207; cernua, 206, 207, var. elliptica, 207, var. integra, 207, var. minima, 207, var. oligodonta, 207; connata, 207, var. petiolata, 207; discoides, 88; Eatoni, 120; elliptica, 207; frondosa, var. anomala, 207; heterodoxa, var. agnostica, 120, var. monardaefolia, 120; hyperborea, 206; laevis, 206; minima, 207.
Birch, Yellow, 169, 170.
Bissell, C. H., Additions to the Flora of Connecticut, Series 2, 111.
Black Walnut, 185.
Blake, S. F., The Indentity of the Genus Adventina Raf., 34.
Blechnum Spicant, 134, 135.
Blephilia hirsuta, 119.
Blue Hills, Carex aestivalis in the, 144.
Boston District, Reports on the Flora of the,—XXXV, 92, XXXVI, 152, XXXVII, 231.
Botanical Club, Field Meeting of the Vermont, 226.
Botrychium ternatum, var. intermedium, 111.
Brachionus, 51.
Brasenia Schreberi, 174.
Brassica arvensis, 36, var. **Schkuhriana,** 36.
British Columbia, Notes on some Algae from, 100.
Bromus, 19, 89; altissimus, 91, forma **incanus,** 91; canadensis, 91; ciliatus, 90, 91, forma **denudatus,** 90, 91, forma **laeviglumis,** 90, 91, var. Porteri, 91, var. purgans, 92; commutatus, 89, 90; hordeaceus, 89, 90, β leptostachys 90, forma **leptostachys,** 89, 90; hordeaceus $\times$ secalinus, 90; incanus, 91; latiglumis, 91; mollis, 90, var. glabrescens, 90, β leptostachys, 90, b. liostachys, 90; mollis-lejostachys, 90; mutabilis, δ hirtus, 89; Notes on some East-American Species of, 89; purgans, 90–92, forma **glabriflorus,** 91, 92, forma **laevivaginatus,** 91, 92; purgans incanus, 91; purgans latiglumis, 91; racemosus, 89, 90; secalinus, 89, 90; forma **hirtus,** 89, var. velutinus, 89, 1. vulgaris, a. typicus, 2. hirtus, 89.
Bulbochaete, 103, varians subsimplex, 108.
Bunias edentula, 23.
Bupleurum, 92; rotundifolium, 92.

Cakile americana, 21, 23; cali-

fornica, 22, 23; edentula, 21–23, 87, var. **californica,** 23, var. **lacustris,** 23, 87; Some Variations of, 21, var. **typica,** 23; lanceolata, subsp. edentula, 23; maritima, 22, 23, var. americana, 23.
Calamagrostis, 142; blanda, 143; canadensis, 142, 143, and some related Species, 142, var. acuminata, 143, var. **Langsdorfi,** 143, var. robusta, 143; columbiensis, 143; dubia, 144; hirtigluma, 143; Langsdorffii, 143, var. Scribneri, 144; Langsdorfi, 143, Macouniana, 143; nemoralis, 144; oregonensis, 143; pallida, 143; perplexa, 143; Pickeringii, 161, var. debilis, 161; Porteri, 143, 144; Pseudophragmites, var. pallida, 143; scabra, 143; Scribneri, 143, 144.
Calliergon stramineum, 123.
Calluna, 152; vulgaris, 152.
Calothrix parietina, 105.
Calypso bulbosa, 187.
Campylium chrysophyllum, 123; stellatum, 123.
Cane à Sucre, 55, 56.
Cape Cod in its Relation to the marine Flora of New England, 1.
Cardarmine hirsuta, 99; pennsylvanica, 99; pratensis, 116.
Carex, 189; adusta, 97, 99, 163; aenea, 97; aestivalis, 144, in the Blue Hills, 144; albicans, 99; albolutescens, var. cumulata, 185; albursina, 190, 192, 193; alopecoidea, 184; alta, 87; anceps, 99, 163, 190–194, 198–201, var. angustifolia, 195, var. patulifolia, 198, var. striatula, 194; annectens, 73, 74, 87, Variations of, 73, var. **xanthocarpa,** 74; atlantica, 184; Bebbii, 163; blanda, 190–192, 194, 195, 197, 198, 201; bulbosa, 192; bullata, var. Greenei, 164; Chapmanii, 200; comosa, 99; Crawei, 97, 99; Crawfordii, 99; **crebriflora,** 190, 193, 197; cryptolepis, 163; Davisii, 184; debilis, 99, var. Rudgei, 99; Deweyana, 114; eburnea, 184; Emmonsii, var. elliptica, 99; exilis, 82, 87; foenea, 97, var. perplexa, 97; formosa, 184; fusiformis, 200; glauca, 163; gracilescens, 195; heterosperma, 192; hirta, 163; ignota, 190, 191, 193, 198; laxiculmis, 185; laxiflora, 190–192, 195–197, 199, 201, and its Relatives, 189, var. angustifolia, 195, var. blanda, 194, 195, ε blanda, a major, 194, ε blanda, c gracillima, 195, ε blanda, b. minor, 194, var. divaricata, 191, 199, var. gracillima, 195, δ intermedia, 191 195, 196, 198, 200, var. intermedia, 191, 195, 196, 199, 201, var. latifolia, 194, ζ latifolia, 194, var. leptonervia, 200, var. Michauxii, 191, 199, var. patulifolia, 99, 163, 191, 194, 198, 199, var. plantaginea, 99, 199, γ plantaginea, 198, var. striatula, 194, β styloflexa, 200, var. varians, 194, 195, 200, 201; lenticularis, var. Blakei, 163; leptonervia, 163, 190, 191, 193, 196, 198, 200, 201; limosa, 114; lupulina, 163; Michauxiana, 164; muricata, 163; nematostachya, 192, novae-angliae, 99; oligosperma, 163; **ormostachya,** 189–191, 193, 196, 201; oxylepis, 149; panicea, 114, var. microcarpa, 163; plantaginea, 99, 198; polymorpha, 114; prasina, 182; Pseudo-Cyperus, 99; rosea, 163, var. minor, 184; scabrata, 163; scoparia, var. minor, 99; seorsa, 185; setacea, var. ambigua, 74; straminea, 163; striatula, 190–194, 198, 199; stricta, var. curtissima, 114; styloflexa, 190, 193, 198–200, var. **fusiformis,** 193, 200, var. **remotiflora,** 191, 193, 200; Swanii, 163; tetanica, 185; trichocarpa, 114; truncata, 192; Tuckermani, 184; umbellata, var. brevirostris, 114; varia, 99; vestita, 185; virescens, var. Swanii, 163; vulpinoidea, 73, var. ambigua, 74, var. xanthocarpa, 74; xanthocarpa, 74; xanthocarpa annectens, 74.
Carum, 92; Carvi, 92.
Carya laciniosa, 99; sulcata, 99.
Castalia odorata, forma rosea, 99.
Cenchrus carolinianus, 58.
Centaurea americana, 97, 98, 100; Cyanus, 209; nigra, 97, 100; vochinensis, 120.
Centaurium umbellatum, 234.

Cephalanthus, 204; grandiflora, 45; occidentalis, 204.
Cerastium nutans, 184.
Chaetonema irregulare, 51.
Chaetophora elegans, 108.
Chamaecyparis thyoides, 112.
Chamaedaphne, 152; calyculata, 152.
Chara, 214.
Checkerberry, 153.
Chenopodium Bonus-Henricus, 174; Boscianum, 184; leptophyllum, 62.
Child, H. W., A New England Occurrence of Listera australis, 187.
Chimaphila, 153; maculata, 153; umbellata, var. cisatlantica, 153.
Chiogenes, 153; hispidula, 153.
Chionaster nivalis, 104, 108, 110.
Chlamydomonas, 51; nivalis, 104, 108.
Chlorococcum, 51.
Chlorophyceae, 51, 107.
Chondria tenuissima, 2.
Chroococcus, 103; cohaerens, 105; macrococcus, 105, 242; minutus, 105; turgidus, 103, 105.
Chrysanthemum Leucanthemum, 207, var. pinnatifidum, 208.
Chrysopsis aspera, 152.
Chytridiaceae, 111.
Cicuta, 93; bulbifera, 93; maculata, 93.
Circaea alpina, 118; canadensis, 118; intermedia, 118; latifolia, 118.
Cirsium Hillii, 88, 184; pumilum, 88, 181, 184.
Cladium mariscoides, forma congestum, 163.
Clethra, 153, 154; alnifolia, 153, 185.
Climacium dendroides, 123.
Closterium, 214, 216, 241; abruptum, 216; acerosum, 216; acuminatum, 216; acutum, 216; angustatum, var. clavatum, 216; areolatum, 217; Braunii, 217; Brebissonii, 217; Ceratium, 217; cornu, 217; costatum, 217; Cucumis, 217; Cynthia, 217; decorum, 217; Delpontii, 217; Dianae, 217; didymotocum, 217; dilatatum, 217; Ehrenbergii, 217, var. immane, 217; incurvum, 217; intermedium, 217; Jenneri, 217, var. robustum, 217; Johnsonii, 217; juncidum, 217; Kuetzingii, 218; lanceolatum, 218; Leibleinii, 218, var. curtum, 218; Libellula, 218; lineatum, 218, var. costatum, 218; littorale, 218; lunula, 218, var. coloratum, 218; macilentum, 218; maculatum, 217; moniliferum, 218; parvulum, 218; praelongum, 218; Pritchardianum, 218; pronum, 218; pseudodianae, 218; Ralfsii, var. hybridum, 218; regulare, 218; rostratum, 218, var. brevirostratum, 218; setaceum, 219; strigosum, 219; striolatum, 219; subcostatum, 219; toxon, 219; tumidum, 219; turgidum, 219; ulna, 219; Venus, 219.
Coelastrum microporum, 51; proboscideum, 51.
Coelopleurum, 93; actaeifolium, 93; lucidum, 93, forma frondosum, 93.
Color Types of Corallorrhiza maculata Raf., 145.
Common Polypody, 132.
Compositae, 44.
Conioselinum, 93; chinense, 93, 118.
Conium, 93; maculatum, 93.
Conjugales, 102.
Connecticut, Additions to the Flora of, Series 2, 111; Preliminary Report on the Desmids of, 213, 236; Senecio obovatus, var. elongatus in, 226.
Conopholis americana, 203.
Convolvulus sepium, var. pubescens, 88; spithamaeus, 118.
Corallorrhiza, 146; innata, 145; maculata, 145–147, Color Types of, 145, var. **flavida,** 147, var. **fusca,** 147, var. **punicea,** 147; multiflora, 145, 146, var. flavida, 145, 147; trifida, 115.
Coreopsis rosea, 205.
Coriandrum, 93; sativum, 93.
Cornaceae, 95.
Cornus, 95; alternifolia, 95; Amomum, 95; canadensis, 95; circinata, 95; florida, 95; obliqua, 95; paniculata, 95; Purpusi, 95; rugosa, 95; stolonifera, 95, 179.
Corydalis sempervirens, 116, 174.
Cosmarium, 221; amoenum, 221; bioculatum, 221; biretum, 221; Boeckii, 221; Botrytis, 221; Broomei, 221; caelatum, 221; circulare, 221; conspersum, 221;

contractum, 221; Corbula, 221, crenatum, 221; Cucumis, 222, Cucurbita, 222; dentatum, 222; depressum, 222; exiguum, var. subrectangulum, 222; galeritum, 222; granatum, 222; Hammeri, 222; intermedium, 222; laeve, 222; latifrons, 222, Meneghinii, 222; modestum, 222; moniliforme, 222; var. panduriformis, 222; Naegelianum, 222; octhodes, 222; orbiculatum, 222; ornatum, 222; orthostichum, 222; ovale, 222; pachydermum, 222; perforatum, 222; Portianum, 222; protractum, 222; pseudobroomei, 222; pseudoconnatum, 222; pseudopyramidatum, 223; punctulatum, 223; pygmaeum, 223; var. Schleiphackianum, 223; pyramidatum, 223; quadratum, forma Willei, 223; quadrum, 223; reniforme, 223; repandum, forma minor, 223; Sinostegos, 223; speciosum, 223; sphalerostichum, 223; subcucumis, 223; subdepressum, 223; suborbiculare, 223; subtumidum, 223; sulcatum, 223; tetraophthalmum, 223; Thwaitesii, 223; trilobulatum, 223; triplicatum, 223; tumidum, 223; Turpinii, 223; undulatum, 223, var. minutum, 223, var. Wollei, 223; viride, 224.
Cosmocladium, 240; saxonicum, 240.
Crataegus rotundifolia, 50.
Cryptotaenia, 93; canadensis, 93.
Curly Grass, 159.
Cuscuta arvensis, 185; Cephalanthi, 202; compacta, 154; Gronovii, 201, 202, var. latiflora, 202, var. latifolia, 202, α vulgivaga, 201, var. vulgivaga, 202; Saururi, 202; vulgivaga, 201.
Cyanophyceae, 51.
Cylindrocystis, 216; Brebissonii, 216.
Cylindrospermum majus, 103, 105.
Cynanchum, 236; nigrum, 236.
Cynodon Dactylon, 242.
Cynoglossum boreale, 118.
Cyperus dentatus, 162; flavescens, 98.
Cypripedium arietinum, 187.
Cystopteris fragilis, var. Mackayi, 159.
Cytisus scoparius, 176.
Danthonia compressa, 98; sericea, 98.
Daphne Mezereum, 177.
Daphnia, 51.
Dasya elegans, 2.
Daucus, 93; Carota, 93.
Deane, W., Reports on the Flora of the Boston District, XXXV. 92, XXXVI. 152, XXXVII. 231; Vaccinium atrococcum, var. leucococcum: A Correction, 228.
Decodon verticillatus, var. laevigatus, 177.
Decumaria barbara, 150.
Delaware, Leucojum aestivum in, 144.
Desmidium, 240; aptogonum, 240; Baileyi, 240; cylindricum, 241; Swartzii, 241.
Desmids, 213; of Connecticut, Preliminary Report on the, 213, 236.
Deyeuxia dubia, 144; Langsdorfii, 143; Macouniana, 143; Porteri, 143, 144.
Diapensiaceae, 231.
Dicentra canadensis, 116.
Dichothrix, 105.
Dicranum fulvum, 122; fuscescens, 122; longifolium, 122; montanum, 122; spurium, 122; viride, 122.
Dictyosphaerium Ehrenbergianum, 108.
Digitalis ambigua, 119.
Digitaria filiformis, 185, 241.
Dioscorea quaternata, 149.
Diospyros, 233; virginiana, 233.
Distichlis spicata, 161.
Ditrichum lineare, 122.
Docidium, 219; Baculum, 219; undulatum, 219.
Drepanocladus, 214.
Drosera longifolia, 57, 87.
Dryopteris simulata, 111.

Eames, E. H., Additions to the Flora of Connecticut, Series 2, 111.
Ebenaceae, 233.
Echinochloa Walteri, 86.
Ecological Polymorphism in Enteromorpha crinita, 50.
Elatine americana, 82; minima, 88, 177, 185.
Eleocharis arenicola, 24–26; capitata, 24, 83, 86, var. dispar, 61;

caribaea 83, var. dispar, 61, 83, 86; Dombeyana, 25, 26; **fallax,** 23, 25, 26; from Massachusetts, A new Species, 23; interstincta, 86, 113; melanocarpa, 59, 60, 69, 86; montana, 25, 26; nitida, 162; olivacea, 114, 162; palustris, 24; quadrangulata, 86; Robbinsii, 113, 162; tenuis, 24; truncata, 25, 26; tuberculosa, 162.
Ellisia Nyctelea, 17.
Elodea canadensis, 181.
Elymus canadensis, 98, 186; glaucifolius, 186; Hystrix, 229, 230; riparius, 98; virginicus, var. hirsutiglumis, 162.
Enteromorpha, 109; crinita, 52, 53, Ecological Polymorphism in, 50.
Epigaea, 153; repens, 153.
Epilobium coloratum, 177; glandulosum, var. adenocaulon, 177, var. occidentale, 177; molle, 118.
Epipactis repens, 99.
Equisetum hyemale, 98, var. affine, 98; maximum, 134; pratense, 112; Telemateia, 134; variegatum, 112, 184, var. Jesupi, 112.
Ericaceae, 152.
Erigeron pusillus, 120; ramosus, var. septentrionalis, 120.
Eriocaulon articulatum, 61; compressum, 186; gnaphalodes, 186; Parkeri, 149; septangulare, 61, 186.
Eriophorum angustifolium, 97, 99; caespitosum, 186. 187; callitrix, 186; polystachion, 97; vaginatum, 186; viridi-carinatum, 97.
Errata, 242.
Eruca sativa, 116.
Eryngium, 93; amethystinum, 93.
Erythraea Centaurium, 234.
Euastrum, 219; affine, 219; ampullaceum, 220; ansatum, 220; bidentatum, 220; binale, 220, forma Gutwinskii, 220, var. insulare, 220; didelta, 220; elegans, 220; evolutum, var. integrius, 220; gemmatum, 220; insulare, 220; integrum, 220; Nordstedtianum, 220; oblongum, 220; pictum, 220; pinnatum, 220; pulchellum, 220; sibiricum, 220; verrucosum, 220.
Eupatorium maculatum, 182.
Euphorbia corollata, 150; ipecacuanhae, 150; marilandica, 150; polygonifolia, 59, 60, 69, 88; prostrata, 150.
Euphorbiaceae, 43, 44.

Fassett, N. C., Lophotocarpus on the north-eastern River-estuaries, 71.
Fern, Licorice-root, 129.
Fernald, M. L., The American Variations of Linnaea borealis, 210; The Generic Name Phragmites, 55; Hoffmann's Flora of Berkshire County, Massachusetts, 183; Lysimachia terrestris (L.) B.S.P., var. ovata (Rand & Redfield), n. comb., 76; A misleading Addition to the State Floras of New England, 96; The northern Variety of Asperella Hystrix, 229; Notes on Sparganium, 26; Notes on the Flora of western Nova Scotia, 1921, 157, 165, 201; Polypodium virginianum and P. vulgare, 125; Some variations of Cakile edentula, 21; Varieties of Geum canadense, 47.
Festuca fluitans, 186, 187; ovina, var. hispidula, 113; rubra, var. multiflora, 162.
Field Meeting of the Vermont Botanical Club, 226.
Filipendula rubra, 175.
Fimbristylis autumnalis, 86.
Flagellatae, 110.
Flora of Berkshire County, Massachusetts, Hoffmann's, 183; of Connecticut, Additions to the, Series 2, 111; of Knox County, Maine, Notable Additions to the, 181; of New England, Cape Cod in its Relation to the marine, 1; of the Boston District, Reports on the, XXXV. 92, XXXVI. 152, XXXVII. 231; of the Great Lakes, The Atlantic coastal plain Element in the, 57, 80; of western Nova Scotia, 1921, Notes on the, 65, 157, 201.
Floras of New England, A misleading addition to the State, 96.
Florideae, 3.
Flynn, N. F., Another Plant from Nantucket, 241; Field Meeting of the Vermont Botanical Club, 226.
Fragaria, 56.

Fraisier. 56.
Fraxinus, 56, 233; americana, 233, forma iodocarpa, 233; nigra, 233; pennsylvanica, 233.
Frêne, 56.
Fucus, 8.
Fuirena squarrosa, 86.
Fungi, 110.

Gaillardia aristata, 120.
Galax, 231; aphylla, 231.
Galinsoga, 35; aristulata, 35; caracasana, 35; **ciliata,** 35; hispida, 35; parviflora, 35, 36, var. hispida, 35, γ hispida, 35.
Galium circaezans, var. glabrum, 119; palustre, 119; trifidum, 119.
Gastropoda, 51.
Gaultheria, 153; procumbens, 153, forma **suborbiculata,** 153.
Gaylussacia, 154; baccata, 154, forma glaucocarpa, 154; dumosa, var. Bigeloviana, 99, 154, var. hirtella, 99; frondosa, 154.
Generic Name Phragmites, 55.
Gentiana, 234; Andrewsii, 185, 234; clausa, 234; crinita, 234; linearis, 183.
Gentianaceae, 234.
Geranium Bicknellii, 176; carolinianum, 176; sibiricum, 17.
Gerardia maritima, 203; purpurea, 88; tenuifolia, 119.
Geum agrimonioides, 47, 48, 50; album, 48; camporum, 47, 49; canadense, 47, 48, 50, var. **camporum,** 48–50, var. camporum, forma **adenophorum,** 48–50, forma **glandulosum,** 48, 50, var. **Grimesii,** 48–50, var. **texanum,** 47–50, Varieties of, 47; Meyerianum, 47, 48, 50; virginianum, 48.
Glaux, 232; maritima, 232, var. obtusifolia, 232
Gloeocapsa, 105, 106; aeruginosa, 105; alpina 106; magma, 103, 105, 106.
Glyceria borealis, 98, 186; Fernaldii, 113; fluitans, 98, 186; laxa, 162; obtusa, 161; septentrionalis, 98, 186
Gomphosphaeria aponina, 106.
Gonatozygon, 215; Brebissonii, 215; pilosum, 215.
Goniophlebium californicum, 136.
Goodyera pubescens, 39, 41, 42, 44, 46, The Mycorrhiza of, 37; repens, 99; tesselata, 99.
Grass, Cruly, 159.
Gratiola aurea, 203.
Graves, C. B., Additions to the Flora of Connecticut, Series 2, 111.
Great Lakes, The Atlantic coastal plain Element in the Flora of the, 57, 80.
Grier, N. M., Preserving Indian Pipes without Discoloration, 225.
Grimes, E. J., Some interesting Plants of the Virginia Coastal Plain, 148.
Grimmia maritima, 122; Olneyi, 122.
Gymnostomum rupestre, 123.
Gymnozyga, 241; moniliformis, 241.

Habenaria flava, 167; macrophylla, 167; obtusata, 167; repens, 149.
Hanson, H. H., Leucojum aestivum in Delaware, 144.
Harger, E. B., Additions to the Flora of Connecticut, Series 2, 111.
Helianthemum propinquum, 117.
Helianthus Schweinitzii, 152.
Hemicarpha micrantha, 86.
Heracleum, 93; lanatum, 93; Sphondylium, 93.
Heterococcus viridis, 51.
Hexalectris spicata, 150.
Hieracium paniculatum, 208; **paniculatum × scabrum,** 208; scabrum, 208.
Hoffmann, R. [Notice of Work], 183.
Hoffmann's Flora of Berkshire County, Massachusetts, 183.
Hottonia, 232; inflata, 88, 232.
Houstonia longifolia, 100; tenuifolia, 100.
Hudsonia ericoides, 177.
Hyacinthus, 210.
Hyalodaphnia, 51.
Hyalotheca, 240; dissiliens, 240; undulata, 240.
Hydrocotyle, 93; americana, 93, 179; umbellata, 88, 94, 179.
Hydrophyllaceae, 98.
Hydrophyllum virginianum, 118.
Hydrurus foetidus, 103, 110.
Hylander, C. J., Preliminary Report on the Desmids of Connecticut, 213, 236.
Hylocomium brevirostre, 123.
Hypericum Ascyron, 184; aureum,

117; dissimulatum, 117, 177; gymnanthum, 88; prolificum, 117; setosum, 151.
Hypheothrix calcicola, 106.
Hypoxis hirsuta, 185.
Hystrix patula, 229.

Identity of the Genus Adventina Raf., 34.
Ilex verticillata, var. fastigiata, 176, var. tenuifolia, 176.
Impatiens biflora, forma citrina, 117, forma immaculata, 117, forma Peasei, 117, forma platymeris, 117; pallida, 184.
Indian Pipes without Discoloration, Preserving, 225.
Inman, O. L., Calamagrostis canadensis and some related Species, 142.
Introduced Species of Lathyrus in the Northwest, 75.
Iris laevigata, 115; pseudacorus, 115.
Isoëtes echinospora, var. Braunii, 160; Engelmanni, 86; macrospora, 160; riparia, 82.

Juglans nigra, 185.
Juncus acuminatus, 166, 182; aristulatus, 87; articulatus, 87; asper, 149; balticus, var. littoralis, 87; caesariensis, 149; dichotomus, var. platyphyllus, 87, 115; Dudleyi, 115, 184; effusus, var. conglomeratus, 165, var. decipiens, 115, var. Pylaei, 165; Greenei, 87; marginatus, 167; militaris, 115, 165, 166, 184, forma **bifrons,** 166, forma **subnudus,** 166; nodosus, 166; pelocarpus, 82, 87; scirpoides, 87, 99; subcaudatus, var planisepalus, 165.
Juniperus communis, 185; horizontalis, 98; sabina, var. procumbens, 98.
Jussiaea decurrens, 83.

Kalmia, 154; angustifolia, 154, forma candida, 154; latifolia, 154; polifolia, 154;
Kerria japonica, 116.
Kidder, N. T., Carex aestivalis in the Blue Hills, 144.
Klugh, A. B., Ecological Polymorphism in Enteromorpha crinita, 50.
Kneiffia, 178; fruticosa, 178; tetragona, 178; tetragona hybrida, 177,
Knowlton, C. H., Reports on the Flora of the Boston District, —XXXV. 92, XXXVI. 152, XXXVII. 231.

Lactuca hirsuta, 208; Scariola, 19.
Laminaria, 8.
Lapsana communis, 121.
Lathyrus Aphaca, 75; hirsutus, 75; in the Northwest, Introduced Species of, 75; latifolius, 75; maritimus, var. glaber, 87; Nissolia, 75; sphaericus, 75.
Lechea maritima, 88; minor, 88.
Ledum, 154; groenlandicum, 118, 154.
Leguminosae, 43, 44.
Lemanea, 103.
Lepidium, 19.
Leptobryum pyriforme, 123.
Lespedeza capitata, 58; Nuttallii, 117.
Leucanium, 51.
Leucodon brachypus, 123; sciuroides, 123.
Leucojum aestivum, 144, in Delaware, 144.
Leucothoë, 154; racemosa, 154.
Levisticum, 94; officinale, 94.
Licorice-root Fern, 129.
Ligusticum, 94; scothicum, 94.
Ligustrum, 233; vulgare, 233.
Liliaeopsis, 94; lineata, 94, 151.
Lilium superbum, 84.
Limonium, 232; carolinianum, 232; trichogonum, 232.
Limosella subulata, 182.
Linaria bipartita, 119; canadensis, 88; reticulata, 119; Spartea, 119.
Linder, D. H., Some Varieties of Panicum virgatum, 11.
Linnaea americana, 210–212; borealis, 210–212, American Variations of, 210, var. americana, 210–212, forma curticalyx, 212, forma integerrima, 212, var. longiflora, 210–212, var. longiflora, forma angustissima, 212, var. longiflora, forma insularis, 212, var. longiflora, forma orientalis, 212, forma minutifolia, 212; longiflora, 212; serpyllifolia, 210, 211.
Linum medium, 117; striatum, 88; virginianum, 185.

Listera, 187; australis, 87, 187, 188, A New England Occurrence of, 187; auriculata, 187; convallarioides, 187; cordata, 187.
Littorella, 203; americana, 203.
Lobelia cardinalis, forma alba, 120; syphilitica, 184.
Long, B., Muscari comosum, a new Introduction found in Philadelphia, 16.
Long, C. A. E., Notable Additions to the Flora of Knox County, Maine, 181.
Lonicera bella, 120; canadensis, 120; Morrowii, 181; oblongifolia, 100.
Lophiocarpus calycinus, 73.
Lophiola americana, 167; septentrionalis, 167.
Lophotocarpus, 71, 73; calycinus, 71–73, var. maximus, 72, var. **spongiosus,** 73; on the northeastern River-estuaries, 71; spatulatus, 72, 73; spongiosus, 71–73, 182.
Lotus corniculatus, 150.
Ludvigia sphaerocarpa, 88.
Lupinus perennis, 87.
Luzula campestris, var. bulbosa, 115, 149; saltuensis, 149.
Lychnis Flos-cuculi, 116.
Lycopodium, 39; annotinum, 186, var. acrifolium, 112; complanatum, 98, var. flabelliforme, 98; inundatum, var. Bigelovii, 112, 159.
Lycopus lucidus, var. americanus, 100; sessilifolius, 100; virginicus, 185.
Lyonia, 154; ligustrina, 88, 154, 182, var. foliosiflora, 154.
Lysimachia, 232; clethroides, 118; Nummularia, 232; producta, 118, 232; punctata, 232; quadrifolia, 232; stricta, var. ovata, 76; terrestris, 180, 232, var. **ovata,** 76; thyrsiflora, 232; vulgaris, 232.
Lythrum alatum, 117.

Maine, Notable Additions to the Flora of Knox County, 181; Waldsteinia in, 124.
Marginaria californica, 136.
Massachusetts, Hoffmann's Flora of Berkshire County, 183; A new Species of Eleocharis from, 23.
Megalodonta Beckii, 207.
Melica striata, 113.
Melilotus, 19.
Mentha aquatica, 119; arvensis, 119; rotundifolia, 119; stachyoides, 119; verticillata, var. pilosa, 119.
Menyanthes, 234; trifoliata, 234.
Merismopedia glauca, 106.
Mertensia maritima, forma albiflora, 202.
Mesotaenium, 216; Endlicherianum, var. grande, 216; micrococcum, 216.
Micrasterias, 220; americana, 220, var. Boldtii, 220, var. Lewisiana, 220; apiculata, 220; crenata, 221; cruxmelitensis, 221; denticulata, 221; furcata, 221; laticeps, 221; muricata, 221; papillifera, 221, var. glabra, 221; radiata, 221; rotata, 221; speciosa, 221; sol, 221; truncata, 221.
Microcoleus paludosus, 103, 106; vaginatus, 106.
Microspora, 108.
Mikania scandens, 82, 83, 88.
Misleading Addition to the State Floras of New England, 96.
Mnium hornum, 123.
Molinia caerulea, 113.
Monas, 51.
Moneses, 155; grandiflora, 118; uniflora, 155.
Monotropa, 155, 225; Hypopitys, 155; uniflora, 155.
Morus rubra, 184.
Mosses, Some Nova Scotia, 121.
Mougeotia, 103, 108; calcarea, 104, 108; parvula, 108.
Muhlenbergia mexicana, 113.
Muscari, 17, 18, 209, 210; botryoides, 17, 18, 209; comosum, 17–19, 208, 210, in Oregon, 208, a new Introduction found in Philadelphia, 16, forma monstrosum, 18, 19; racemosum, 17, 18.
Mycorrhiza of Goodyera pubescens, 37.
Myrica carolinensis, 87.
Myriophyllum, 214; alterniflorum, 182; exalbescens, 117; humile, 179; spicatum, 117; tenellum, 179.
Myxophyceae, 102–104.

Najas gracillima, 86, 182; guadalupensis, 112.

Nantucket, Another Plant from, 241.
Neckera complanata, 124; pennata, 124.
Nelson, J. C., Introduced Species, of Lathyrus in the Northwest, 75; Muscari comosum in Oregon, 208.
Nelumbo lutea, 87.
Netrium, 216; digitus, 216, var. constrictum, 216; interruptum, 216.
New England, Cap Cod in its Relation to the marine Flora of, 1; A misleading Addition to the State Floras of, 96, Occurrence of Listera australis in, 187; Orchids, Notes on—II., 37.
New Species of Eleocharis from Massachusetts, 23.
North America, Notes on Trees and Shrubs of southeastern, 77.
Northern Variety of Asperella Hystrix, 229.
Nostoc, 103, 106; commune, 103, 106; macrosporum, 106; microscopicum, 103, 106.
Notable Additions to the Flora of Knox County, Maine, 181.
Notes on New England Orchids —II., 37; on some Algae from British Columbia, 101; on some East-American Species of Bromus, 89; on Sparganium, 26; on the Flora of western Nova Scotia, 157, 165, 201; on Trees and Shrubs of southeastern North America, 77.
Nova Scotia Mosses, Some, 121; Notes on the Flora of, 157, 165, 201.
Nymphaea odorata, var. minor, 99; rubrodisca, 99.
Nymphoides, 234; aquaticum, 234; lacunosum, 88, 234.
Nyssa, 95; sylvatica, 95.

Oedogonium, 103.
Oenothera, 178; fruticosa, 177, 178, var. hirsuta, 177; hybrida, 177–179; tetragona, 178, 179; tetraptera, 178.
Oleaceae, 233.
Onosmodium virginianum, 88.
Onychonema, 240; filiforme, 240; laeve, 240.
Oocystis, 103; lacustris, 108; solitaria, 108; solitaria major, 108.
Orchidaceae, 43–45, 188.
Orchids, Notes on New England, —II., 37.
Orchis maculata, 45.
Oregon, Muscari comosum in, 208.
Orontium, 186; aquaticum, 87, 185.
Oryzopsis pungens, 161.
Oscillatoria, 51; amoena, 106.
Osmorhiza, 94; Claytoni, 94; longistylis, 94.
Ostrya virginiana, 167.

Panicum albemarlense, 86, 98; clandestinum, 161; columbianum, 98; debile, 86; depauperatum, var. psilophyllum, 161, var. psilophyllum, forma cryptostachys, 161; dichotomiflorum, 160; laxiflorum, 98; Lindheimeri, 98, var. septentrionale, 161; lucidum, 86; meridionale, 86, 98, 161; minus, 98; oligosanthes, 86, 98; oricola, 98; pauciflorum, 98; philadelphicum, 98; polyanthes, 113; Scribnerianum, 98; sphaerocarpum, 98; spretum, 86, 98, 161, 182; tsugetorum, 98; Tuckermani, 98; umbrosum, 185; verrucosum 86; virgatum, 11–13, var. breviramosum, 13, var. confertum, 12, var. cubense, 11, 13, var. obtusum, 11, var. **scorteum,** 13, 14, Some Varieties of, 11, var. **spissum,** 13, 15, 161, var. **thyrsiforme,** 13, 14; xalapense, 98.
Paramoecium, 51.
Parlin, J. C., Waldsteinia in Maine, 124.
Parnassia asarifolia, 150.
Parthenium, 35.
Paspalum laeve, 98; Muhlenbergii, 98; psammophilum, 98; pubescens, 98.
Pastinaca, 94; sativa, 94.
Peattie, D. C., The Atlantic coastal plain Element in the Flora of the Great Lakes, 57, 80.
Pediastrum, 102, 103; Boryanum, 108; Boryanum longicorne, 108; tricornutum alpinum, 108.
Pellaea atropurpurea, 184.
Peltandra virginica, 87.
Penium, 213, 216; closterioides, 218; margaritaceum, 216; Navicula, 216; polymorphum, 216; spirostriolatum, 216.

Pentstemon hirsutus, 185; pubescens, 185.
Perilla frutescens, var. crispa, 119.
Petasites palmatus, 208.
Phaeosporaceae, 3.
Phalaris arundinacea, forma picta, 185, forma variegata, 185.
Phaseolus diversifolia, 99; polystachyus, 99, 117.
Philadelphia, Muscari comosum a new Introductiom found in, 16.
Phormidium autumnale, 104, 107; laminosum, 103; Retzii, 103, 107.
Phragmites, 55, 56, communis, 161; The generic Name, 55.
Physalis heterophylla, var. ambigua, 184; viscosa, 100.
Physocarpus opulifolius, 116.
Picea canadensis, 98, 112.
Pinguicula, 103.
Pinus Banksiana, 160; resinosa, 112; Strobus, 160.
Plant from Nantucket, Another, 241.
Plantago altissima, 204; eriophora, 204; hungarica, 204; lanata, 204; lanceolata, 203, 204, δ capitata, 204, β capitellata, 204, δ lanuginosa, 204, γ pumila, 204, var. sphaerostachya, 203, 204, var. sphaerostachya, forma eriophora, 203, 204; media, var. Monnieri, 119; microcephala, 204; sphaerostachya, 204.
Plantain, Rattlesnake, 39.
Pleurotaenium, 219; coronatum, 219, var. fluctuatum, 219; crenulatum, 219; nodosum, 219; trabecula, 219; truncatum, 219.
Plumbaginaceae, 232.
Poa saltuensis, var. microlepis, 161.
Podophyllum peltatum, 184.
Pogonia affinis, 149; pendula, 185; trianthophora, 185.
Polemoniaceae, 98.
Polygala cruciata, 57, 88; Senega, 184.
Polygonella articulata, 87.
Polygonum Bistorta, 173; hydropiperoides, 173, 174, var. digitatum, 173; **hydropiperoides** × **robustius,** 173; Muhlenbergii, 173; pennsylvanicum, 87, var. genuinum, 173, var. laevigatum, 173; puritanum, 173; robustius, 173, 174; tenue, 185.
Polymosphism in Enteromorpha crinita, Ecological, 50.
Polypodium, 133; australe, 141; californicum, 127–131, 134, 136, 140, var. intermedium, 128, 129, 134, 136, 140, var. Kaulfussii, 136, 140; cambricum, 141; falcatum, 127–132, 134, 136, 139; Fauriei, 135; Glycyrrhiza, 127, 129, 136, 139; hesperium, 127, 129–131, 134, 136–138; incanum, 133; intermedium, 136, 139; japonicum, 135; occidentale, 127, 132, 136, 139; Quercinum, 131; virginianum, 125–128, 130–133, 135, 136, 141, and P. vulgare, 125, forma **acuminatum,** 141, forma **alato-multifidum,** 142, forma **bipinnatifidum,** 141, 227, forma **brachypteron, 141,** forma **chondroides,** 142, forma **Churchiae,** 142, forma **deltoideum,** 141, forma **elongatum,** 141, forma **subsimplex,** 141; vulgare, 125–137, 140, 141, var. Acutum-Stansfieldii, 128, 139, var. alato-multifidum, 142, β americanum, 126, 141, var. angustatum, 141, var. attenuatum, 111, 139, 141, forma auritum, 185, var. auritum, 141, var. bifido-multifidum, 142, forma brachypteron, 141, var. cambricum, 136, 141, 142, 227, var. Churchiae, 142, var. columbianum, 137, 138, var. commune, 137, 139, forma deltoideum, 141, forma elongatum, 141, var. falcatum, 139, forma hastatum, 141, var. hesperium, 137, var. hibernicum, 141, var. **intermedium,** 139, var. intermedium, forma **projectum,** 140, var. japonicum, 135, var. **Kaulfussii,** 140, γ occidentale, 126, 136, var. occidentale, 127, 134, 139, var. perpusillum, 138, forma pumilum, 138, var. pygmaeum, 138, forma rotundatum, 137, 138, 141, var. rotundatum, 134, 137, 138, var. semilacerum, 142, var. serratum, 128, 134, 140, 141, var. sinuatum, 142, var. transsilvanicum, 134, 139, forma variegata, 130, var. virginianum, 126, 141; vulgare acuminatum, 141, vulgare virginianum, 130.

Polypody, 125, 133, Common, 132.
Pontederia cordata, var. angustifolia, 114.
Ponthieva racemosa, 149.
Populus tacamahacca, 184.
Porthretria, 51.
Potamogeton alpinus, 184; americanus, 112; amplifolius, 160; bupleuroides, 86, 98; confervoides, 160, 186; dimorphus, 160; Friesii, 184; hybridus, 86; natans, 112; Oakesianus, 62, 160; perfoliatus, 98; pulcher, 86, 160; praelongus, var. angustifolius, 112; Tuckermani, 186.
Potentilla pumila, 175, 185.
Prasiola fluviatilis, 104, 109.
Preliminary Report on the Desmids of Connecticut, 213, 236.
Prenanthes nana, 208; Serpentaria, 185.
Pressing Indian Pipes without Discoloration, 225.
Primula, 233; farinosa, var. macropoda, 179; officinalis, 118; veris, 233.
Primulaceae, 232.
Proserpinaca palustris, 179; pectinata, 179.
Prunus cuneata, 99; maritima, forma flava, 111; pumila, 99; virginiana, var. leucocarpa, 117.
Psilocarya corymbifera, 148; nitens, 86; scirpoides, 86.
Pterigynandrum filiforme, 123.
Ptilota serrata, 3.
Puccinellia, 100; distans, 113; fasciculata, 100.
Pyrola, 155; americana, 155; chlorantha, 179, var. convoluta, 155, var. paucifolia, 179; elliptica, 155; rotundifolia, var. americana, 155, var. arenaria, 179; secunda, 155.
Pyrus arbutifolia, 174.

Quercus aquatica, 79, var. laurifolia, 78; **arenicola,** 77, var. **integra,** 78; borealis, 173, var. maxima, 173; coccinea, 185; falcata, 99; hybrida, 77, 78, ilicifolia, 58; laurifolia, 77, 78; macrocarpa, 184; **moultonensis,** 78; nigra, 77; nigra **heterophylla,** 79; obtusa, 77, 78; obtusa **obovatifolia,** 78; phellos, 79; phellos × Q. Shumardii, 78; prinoides, 87; rhombica, 78, var. obovatifolia, 78; rubra, 99, 173, var. ambigua, 173, var. runcinata, 99; Shumardii, 79.

Ranunculus allegheniensis, 116; circinatus, 184; delphinifolius, 182; repens, var. pleniflorus, 116; reptans 116.
Rattlesnake Plantain, 39.
Reports on the Flora of the Boston District,—XXXV. 92, XXXVI. 152, XXXVII. 231.
Reseda alba, 209.
Rhabdonia tenera, 2.
Rhacomitrium aciculare, 122; heterostichum, 123; heterostichum alopecurum, 122; heterostichum gracilescens, 122; microcarpum, 122, 123; sudeticum, 123.
Rhexia virginica, 177.
Rhizoclonium **Selkirkii,** 109.
Rhizoctonia repens, 41.
Rhododendron, 155; canadense, 155; canescens, 155; maximum, 118, 155; nudiflorum, 155, 185; Vaseyi, 155; viscosum, 155, var. glaucum, 155, var. nitidum, 155.
Rhodophyceae, 110.
Ribes triste, var. albinervium, 116, 184.
Riccia fluitans, 214.
Rosa acicularis, 99, 181; carolina, var. setigera, 176; carolina × nitida, 176; nitida × palustris, 176; nitida × virginiana, 176; obovata, 176.
Rotala ramosior, 88.
Roya, 216; obtusa, 216.
Rubiaceae, 43, 44.
Rubus abbrevians, 176; alleghensis, 175; amnicola, 175; Andrewsianus, 181; arcuans, 176; biformispinus, 175; canadensis, 99; Enslenii, 185; glandicaulis, 175; illecebrosus, 175; jaceus, 176; multiformis, 175; neglectus, 116; odoratus, 175, var. **malachophyllus,** 175, recurvans, 175; recurvicaulis, 176; tardatus, 176; vermontanus, 176.
Rudbeckia laciniata, 205, var. **gaspereauensis,** 205, var. humilis, 152.
Rumex Acetosa, 115; maritimus, var. fueginus, 62; mexicanus, 182; persicaroides, 62.

Ruppia maritima, var. obliqua, 182.
Rynchospora alba, 159; capitellata, 162, var. discutiens, 162; corniculata, 82, var. interior, 82; cymosa, 87; fusca, 87, 162; macrostachya, 57, 87, 114.

Sabatia, 100, 234; angularis, 234; campanulata, 235; dodecandra, 100, 235; gracilis, 235; Kennedyana, 100, 180, 235, forma candida, 180, 235, forma **eucycla,** 180; stellaris, 234, 235.
Saccaron, 55, 56.
Saccharum, 55, 56.
Sagittaria calycina, 71, var. spongiosa, 71, 73; cuneata, 184; heterophylla, var. angustifolia, 98; latifolia, 98, 186; sagittifolia, 186, 187; variabilis, var. angustifolia, 98.
Salix amygdaloides, 99; babylonica, 209; incana, 182; longifolia, 99; pentandra, 181; serissima, 184; viminalis, 167.
Salvia Sclarea, 119.
Samolus, 233; floribundus, 179, 233.
Sanicula, 94; gregaria, 94; marilandica, 94; trifoliata, 118, 184.
Sarcanthineae, 45.
Sargassum vulgare, 2.
Sarracenia heterophylla, 174; purpurea, forma **heterophylla,** 174, var. heterophylla, 174; purpurea heterophylla, 174.
Saxifraga Aizoon, 227.
Scenedesmus acutus, 51; bijuga, 110; obliquus, 110.
Schizaea pusilla, 159.
Scirpus atrocinctus, 99; caespitosus, var. callosus, 181; campestris, var. novae-angliae, 114, 162, 182; cyperinus, 99, var. pelius, 114; Eriophorum, 86, 99; lineatus, 184; Olneyi, 162; palustris, 160; Peckii, 184; Smithii, 86; subterminalis, 114.
Scleria reticularis, 87, var. pubescens, 87.
Scytonema mirabile, 107; myochrous, 103, 107.
Selaginella rupestris, 160.
Selinum, 94; Carvifolia, 94.
Senecio aureus, 208; obovatus, var. elongatus in Connecticut, 226; viscosus, 120.
Setchell, W. A., Cape Cod in its Relation to the marine Flora of New England, 1
Shepherdia canadensis, 177.
Sherardia arvensis, 119, 152.
Silene pennsylvanica, 185.
Silphium perfoliatum, 120.
Sinapis arvensis, β Schkuhriana, 36; Schkuhriana, 36.
Sisymbrium altissimum, 19.
Sisyrinchium apiculatum, 87; atlanticum, 87, 115, 167, 182; Farwellii, 87; gramineum, 184; intermedium, 167; mucronatum, 115.
Sium, 94; cicutaefolium, 94; suave, 94, forma Carsonii, 94.
Smilacina trifolia, 115.
Smilax rotundifolia, 185.
Solanum Dulcamara, γ marinum, 202, β tomentosum, 202, var. villosissimum, 202; littorale, 202, triflorum, 119.
Solidago bicolor, 204; Boottii, 97, 98, 100; canadensis × uniligulata, 205; decumbens, 100; Elliottii × rugosa, 204; hispida, 184; latifolia, 204; Mosleyi, 88; nemoralis, 97, 100; racemosa, 100, var. Gillmani, 100; serotina, var. gigantea, 205; speciosa, 185; stricta, 100; tenuifolia, 88, 205; tortifolia, 100; unguiculata, var. neglecta, 204.
Some interesting Plants of the Virginia Coastal Plain, 148; Nova Scotia Mosses, 121; Varieties of Panicum virgatum, 11; Variations of Cakile edentula, 21.
Sonchus asper, var. pungens, 121.
Sparganium, 26, 27, 29–31; acaule, 29, 33; affine, 29, 30, 33; affine × minimum, 29; americanum, 27, 28, 32, 33, 98, var. androcladum, 27, 33; androcladum, 27, 28, 31–33; angustifolium, 30–33; chlorocarpum, 29, 32, 33, var. **acaule,** 29, 33; diversifolium, 29, 33, var. acaule, 29, 33; eurycarpum, 30–32; fluctuans, 30, 32, 33, 184; glomeratum, 29; hyperboreum, 32, 34; lucidum, 27, 28, 32; minimum, 29–32, 34; Notes on, 26; ramosum, 28; simplex, 28, 29, 33, 98, var. acaule, 29, var. androcladum, 27, 28, 33, var. Nuttallii, 27, 28; simplex × minimum, 29.

Spartina alterniflora, var. pilosa, 161.
Spergularia canadensis, 115.
Sphaerozosma, 240, pulchrum, 240; spinulosum, 240.
Sphagnum macrophyllum, 121; Pylaesii, 121, 122.
Sphenopholis obtusata, 113; pallens, 161.
Spigelia marilandica, 83.
Spiraea tomentosa, var. rosea, 87.
Spiranthes cernua, 44, var. ochroleuca, 167; gracilis, 44; Romanzoffiana, 99.
Spirogyra, 103, 110.
Spirotaenia, 215; condensata, 215.
Spondylosium, 240; papillosum, 240; planum, 240; pygmaeum, 240.
Sporobolus uniflorus, 82.
Stachys cordata, 100; hyssopifolia, 88; palustris, var. homotricha, 184.
Staurastrum, 236; aciculiferum, 236; Arctiscon, 236; aspinosum, 237; avicula, 237; bicornatum, 237; Biennianum, var. ellipticum, 237; Brebissonii, 237; brevispinosum, 237; concinnum, 237; coronulatum, 237; crenulatum, 237; cuspidatum, 237; cyrtocerum, 237; dejectum, 237, var. convergens, 237; Dickei, 237; dilatatum, 237; elegantissimum, 237; erasum, 237; eustephanum, 238; furcigerum, 238; gracile, 238; grande, 238, var. parvum, 238; granulosum, 238; hexacerum, var. aversum, 238; hirsutum, 238; incisum, 238; inflexum, 238; iotanum, 238; irregulare, 238; leptocladum, 238, var. cornutum, 238; margaritaceum, 238; megacanthum, 238; Meriani, 238; monticulosum, 239; muricatum, 239; muticum, 239; odontatum, 239; Ophiura 239; orbiculare, var. Ralfsii, 239; paradoxum, 239; polymorphum, 239; polytrichum, 239; proboscideum, 239; punctulatum, 239; pygmaeum, 239; Ravenelii, 239; Sebaldi, 239; setigerum, 239; spongiosum, 239; tetracerum, 239; tumidum, 239; vestitum, var. tortum, 239.
Steironema, 233; ciliatum, 233; lanceolatum, 233.
Stellaria aquatica, 116; borealis, var. isophylla, 116; pubera, 99.
Stewartia pentagyna, 150.
Stigeoclonium, 51.
Stigonema informe, 103, 107; mammilosum, 103, 107, 110; ocellatum, 103, 107; panniforme, 107.
Streptopus amplexifolius, 115; roseus, 115.
Strophostyles helvola, 58, 99.
Styrax americana, 83.
Subularia aquatica, 174.
Sucrier, 55, 56.
Synechococcus aeruginosus, 107.
Syringa, 234; persica, 234; vulgaris, 234.

Taxodium distichum, 83.
Taylor, W. R., Notes on some Algae from British Columbia, 101.
Tephrosia virginiana, 58.
Tetmemorus, 219; Brebissonii, 219; laevis, 219.
Tetraedron minimum, 110.
Tetraspora lubrica, 110.
Teucrium canadense, var. littorale, 202.
Thalictrum anemonoides, 185.
Thelypteris Boottii, 159; simulata, 111, 159.
Thlaspi arvense, 19, 150.
Thuja, 160; occidentalis, 98, 160.
Tiarella cordifolia, 116.
Tolypothrix byssoidea, 107; lanata, 103, 107.
Torilis, 95; leptophylla, 95.
Tortula papillosa, 123.
Trentepohlia aurea, 106.
Trichoon, 55, 56.
Trientalis, 233; americana, 233; borealis, 181, 186, 233; europaea, 186.
Trifolium dubium, 176.
Triglochin palustris 98.
Triploceras, 219; gracile, 219; verticillatum, 219.
Twinflower, 210.

Ulota americana, 123; crispa, 123; Ludwigii, 123.
Ulothrix, 51, 103, 110.
Ulotricaceae, 53.
Ulvaceae, 53.
Umbelliferae, 92.
Uniola longifolia, 148.
Utricularia clandestina, 88; cor-

nuta, 203; geminiscapa, 203; gibba, 57, 88, 203; minor, 184, 203; purpurea, 88, 119; 121, 203; resupinata, 82, 88, 119, vulgaris, 100, var. americana, 100.

Vaccinum atrococcum, 156, forma **leucoccum,** 156, forma **leucococcum,** 228, a Correction, 228; corymbosum, 156, 179, var. amoenum, 156, 179, var. atrococcum, forma leucococcum, 156, 228, var. pallidum, 156, 179; macrocarpon, 156; pennsylvanicum, 156, var. myrtilloides, 156, var. nigrum, 156; Oxycoccus, 156, 159; stamineum, 185; vacillans, 156; Vitis-Idaea, var. minus, 156.
Valisneria americana, 112; spiralis, 112.
Vargasia caracasana, 35.
Variations of Carex annectens, 73.
Varieties of Geum canadense, 47; of Panicum virgatum, Some, 77.
Vermont Botanical Club, Field Meeting of the, 226.
Veronica agrestis, 203; Chamaedrys, 182; virginica, 184.
Viburnum, 77; affine, 184; alnifolium, 204; densiflorum, 77.
Vicia angustifolia, var. segetalis, 186; sativa, 186, 187; sepium, 176.
Vinca, 235; minor, 235.
Viola conspersa, 177; labradorica, 177; latiuscula, 184; nephrophylla, 184; pedata, 151, var. concolor, 151; Selkirkii, 184; villosa, 151.
Virginia Coastal Plain, Some interesting Plants of the, 148.
Vitis aestivalis, 185; cordifolia, 99; labrusca × vinifera, 177.
Vorticella, 51.

Waldsteinia fragarioides, 124, 184; in Maine, 124.
Walnut, Black, 185.
Weatherby, C. A., Additions to the Flora of Connecticut, Series 2, 111; A new Species of Eleocharis from Massachusetts, 23; Varieties of Geum canadense, 47.
Wiegand, K. M., Carex laxiflora and its Relatives, 189; Notes on some East-American Species of Bromus, 89; Variations of Carex annectens, 73.
Woodsia ilvensis, 159.
Woodwardia areolata, 111, 159; virginica, 86, 159.

Xanthidium, 224; antilopaeum, 224, var. hebridarium, 224, var. minneapoliense, 224, var. polymazum, 224; aseptum, 224; cristatum, 224, var. uncinatum, 224; fasciculatum, 224; Johnsonii, 224; subhastiferum, var. Murrayi, 224; Tylerianum, 224.
Xanthium commune, 120.
Xyris caroliniana, 87; flexuosa, 87, 99; montana, 99, 164; torta, 87, 99

Yellow Birch, 169, 170.

Zizia, 95; aurea, 95.
Zostera, 207.
Zygadenus venenosus, 209.
Zygnema, 103, 110; cylindricum, 104, 110.

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